

IN THE CLAIMS

Please substitute claims 1-11 with the following:

1. (Currently Amended) ~~A method for fabricating a fractal structure characterized in~~
method, comprising the steps of:

growing a first fractal structures structure from a plurality of first start sites, respectively,
~~while having said fractal structures interact with each other, to form fractal structures coupled to~~
~~each other site;~~

growing a second fractal structure from a second start site; and

coupling said first fractal structure to said second fractal structure during the step of
growing said second fractal structure.

2. (Currently Amended) ~~The method for fabricating a fractal structure according to~~
~~claim 1 wherein growth rate from a specific start site among said plurality of start sites is~~
~~determined by the 1, further comprising the step of:~~

determining a growth rate based on a probability that a material reaches a portion already
grown from said second start site a remote site in a diffusion process, and the a probability that a
growth promotion factor reaches the portion already grown from portions grown from the other
start sites said second start site in a diffusion process process, wherein said first fractal structure
is grown at said growth rate.

3. (Currently Amended) ~~The method for fabricating a fractal structure according to~~
~~claim 2 wherein 2, wherein~~ said growth rate is proportional to ~~the a~~ product of a power function
of the probability that a material reaches a portion already grown from said second start site a
~~remote site~~ in a diffusion process, and a power function of the probability that a growth

promotion factor reaches the portion already grown from portions grown from ~~the other start sites~~ said second start site in a diffusion process.

4. (Currently Amended) The method ~~for fabricating a fractal structure~~ according to claim 2 ~~wherein 2, further comprising the step of adjusting a parameter to control~~ fractal property, self-similarity, complexity of the structure, or the number of coupling ~~can be controlled substantially parametrically.~~

5. (Currently Amended) The method ~~for fabricating a fractal structure~~ according to claim 3 ~~wherein 3, further comprising the step of adjusting a parameter to control~~ fractal property, self-similarity, complexity of the structure, or the number of coupling ~~can be controlled substantially parametrically.~~

6. (Currently Amended) The method ~~for fabricating a fractal structure~~ according to claim 4 ~~wherein 4, wherein fractal property, self-similarity, complexity of the structure, or the number of coupling can be controlled substantially parametrically by adjusting said parameter comprises the relative potential determining diffusion of the growth promotion factor of said first fractal structure among the respective fractal structures grown from the plurality of start sites in an appropriate relation to a site at infinity.~~

7. (Currently Amended) The method ~~for fabricating a fractal structure~~ according to claim 5 ~~wherein 5, wherein fractal property, self-similarity, complexity of the structure, or the number of coupling can be controlled substantially parametrically by adjusting said parameter comprises the relative potential determining diffusion of the growth promotion factor of said first fractal structure among the respective fractal structures grown from the plurality of start sites in an appropriate relation to a site at infinity.~~

8. (Currently Amended) The method ~~for fabricating a fractal structure~~ according to claim ~~1 wherein~~ 1, wherein an anisotropy is introduced into a space in which said fractal structures are grown.

9. (Currently Amended) The method ~~for fabricating a fractal structure~~ according to claim ~~2 wherein~~ 2, wherein diffusion coefficient in a space in which said fractal structures are grown has an anisotropy.

10. (Currently Amended) The method ~~for fabricating a fractal structure~~ according to claim ~~8 wherein~~ 8, further comprising the step of adjusting a parameter to control fractal property, self-similarity, complexity of the structure, or the number of coupling ~~can be controlled substantially parametrically.~~

11. (Currently Amended) The method ~~for fabricating a fractal structure~~ according to claim ~~9 wherein~~ 9, further comprising the step of adjusting a parameter to control fractal property, self-similarity, complexity of the structure, or the number of coupling ~~can be controlled substantially parametrically.~~

12. (New) The method according to claim 1, further comprising the step of:
determining a growth rate based on a probability that a material reaches a portion already grown from said first start site in a diffusion process, and a probability that a growth promotion factor reaches the portion already grown from portions grown from said first start site in a diffusion process, wherein said second fractal structure is grown at said growth rate.

13. (New) The method according to claim 12, wherein said growth rate is proportional to a product of a power function of the probability that a material reaches a portion already grown from said first start site in a diffusion process, and a power function of the

probability that a growth promotion factor reaches the portion already grown from portions grown from said first start site in a diffusion process.

14. (New) The method according to claim 12, further comprising the step of adjusting a parameter to control fractal property, self-similarity, complexity of the structure, or the number of coupling.

15. (New) The method according to claim 13, further comprising the step of adjusting a parameter to control fractal property, self-similarity, complexity of the structure, or the number of coupling.

16. (New) The method according to claim 14, wherein said parameter comprises the relative potential determining diffusion of the growth promotion factor of said first fractal structure in an appropriate relation to a site at infinity.

17. (New) The method according to claim 15, wherein said parameter comprises the relative potential determining diffusion of the growth promotion factor of said first fractal structure in an appropriate relation to a site at infinity.

18. (New) The method according to claim 14, wherein said parameter comprises the relative potential determining diffusion of the growth promotion factor of said second fractal structure in an appropriate relation to a site at infinity.

19. (New) The method according to claim 15, wherein said parameter comprises the relative potential determining diffusion of the growth promotion factor of said second fractal structure in an appropriate relation to a site at infinity.

20. (New) The method according to claim 4, wherein said parameter comprises the relative potential determining diffusion of the growth promotion factor of said second fractal structure in an appropriate relation to a site at infinity.

21. (New) The method according to claim 5, wherein said parameter comprises the relative potential determining diffusion of the growth promotion factor of said second fractal structure in an appropriate relation to a site at infinity.

22. (New) The method according to claim 12, wherein diffusion coefficient in a space in which said fractal structures are grown has an anisotropy.

23. (New) The method according to claim 22, further comprising the step of adjusting a parameter to control fractal property, self-similarity, complexity of the structure, or the number of coupling.